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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/772,955	01/31/2001	Fumio Ono	Q62734	1483

7590 02/14/2003

SUGHRUE, MION, ZINN,
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2100 Pennsylvania Avenue, N.W.
Washington, DC 20037

EXAMINER

NGO, HUYEN LE

ART UNIT	PAPER NUMBER
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2871

DATE MAILED: 02/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/772,955

Applicant(s)

ONO ET AL.

Examiner

Julie-Huyen L. Ngo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: .

DETAILED ACTION

Priority

Receipt is acknowledged of paper submitted under 35 U.S.C. 119(a)-(d), which paper has been placed of record in the file.

Information Disclosure Statement

The information disclosure statement filed January 31, 2001 (paper no. 6) has been considered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 and 7-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Takekoshi et al. (US5691764).

With respected to claims 1, 4, 5, 7 and 8, Takekoshi et al. teach (Figs. 10-21) forming a liquid crystal display panel scaling apparatus comprising:

- a cassette (ST or 12) for accommodating a plurality of laminated liquid crystal display panels into which liquid crystal is injected (col.1, lines 15-17);
- a pressurizing unit for accommodating said cassette, said pressurizing unit comprising a plurality of pressurizing actuators (motors 114, 119, 121 and 122) for pressurizing said liquid crystal display panels.

wherein said pressurizing unit further comprises a plurality of pressure sensors, each corresponding to one of said pressurizing actuators, so that said pressurizing actuators are individually driven by output signals of said pressure sensors (zero-point sensor and height sensor, CCD camera 134, Fig. 14), as recited in claims 5 and 8.

With respected to claims 2 and 3, Takekoshi et al. teach (Figs. 11-12) that said cassette comprising:

- a pedestal 111/116;
- a X-direction positioning block provided on said pedestal;
- a Y-direction positioning block provided on said pedestal;
- screws for adjusting said X-direction positioning block and said Y-direction positioning block.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takekoshi et al. (US5691764).

It is obvious and conventional for one of ordinary skill in the art to wipe liquid crystal spilled from LVD panels while pressurizing is operated for cleaning surfaces of

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LCD panel; and to use an ultraviolet irradiation unit for irradiating the seal material with ultraviolet rays for binding and hardening the sealing members.

Therefore, it would have been obvious for one of ordinary skill in the art to wipe the liquid crystal spilled from LVD panels while pressurizing is operated for cleaning surfaces of the liquid crystal display panel scaling apparatus disclosed by Takekoshi et al.; and to use an ultraviolet irradiation unit for irradiating the seal material with ultraviolet rays for binding and hardening the sealing members in the liquid crystal display panel scaling apparatus disclosed by Takekoshi.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- Byun et al. (US6190224B1) disclose an automation system and a method for assembling a workpiece.
- Choo et al. (US6297869 B1) disclose a substrate and a liquid crystal display panel capable of being cut by using a laser.
- Komoi et al. (US6379759B2) disclose a sealing agent for liquid crystal display and liquid crystal display using the sealing agent.

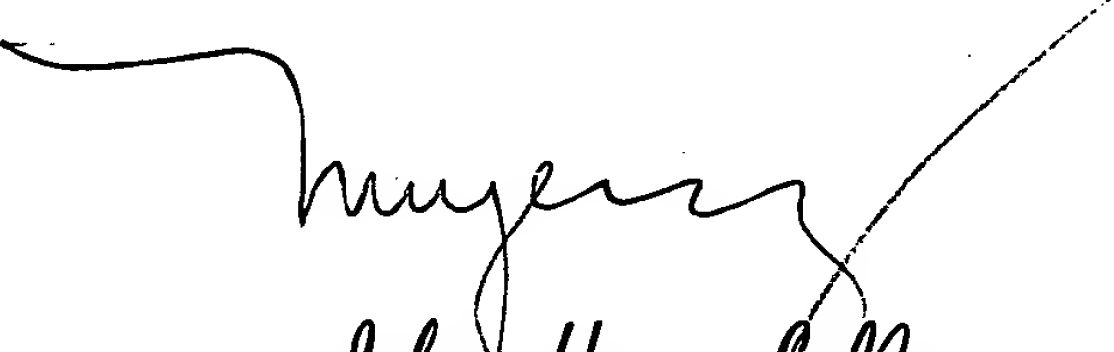
Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Julie-Huyen L. Ngo whose telephone number is (703) 305-3508. The Examiner can normally be reached on T-Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Robert H. Kim can be reached at (703) 305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-4709 for regular communications and (703) 746-4709 for After Final communications. Please contact the Examiner before faxing any paper to the Office.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

February 8, 2003



Julie-Huyen L. Ngo
Patent Examiner
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